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Science All About Us

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OUR
WORLD
OF
SCIENCE

Science All About Us

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OUR WORLD OF SCIENCE

Science All About Us

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Science through the Year

CRAIG · DANIEL

Science Every Day

CRAIG · BALDWIN

Exploring in Science

CRAIG · HURLEY

Working with Science

CRAIG · HILL

New Ideas in Science

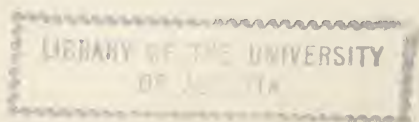
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Going Forward with Science

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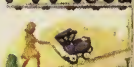
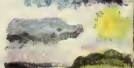
Science Plans for Tomorrow

CRAIG · URBAN



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The Seasons





Summer

This is the way
Jack and Susan's home looks
in the summer.



This is the way
Uncle Henry's farm looks
in the summer.



This is the way some plants look
in the summer.



This is what some animals do
in the summer.



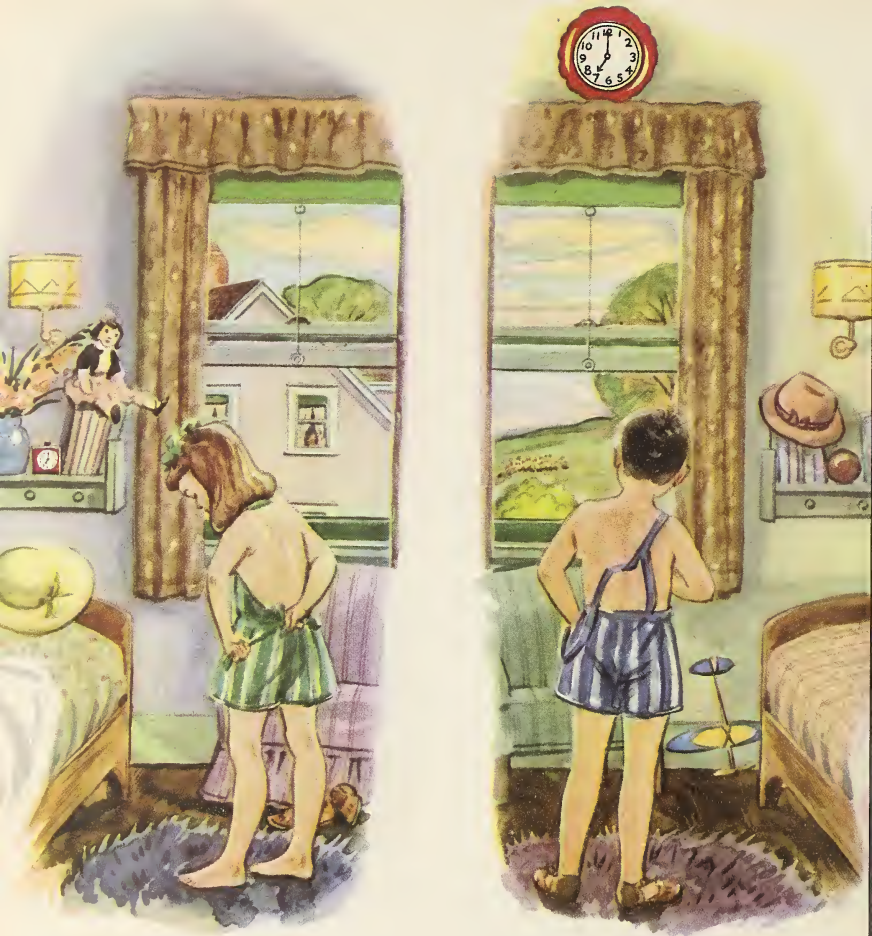
This is what Father and Mother do
in the summer.



Jack and Susan play
in the summer.



This is the way it looks
when Jack and Susan get up
in the summer.



This is the way it looks
when Jack and Susan go to bed
in the summer.



This is what Jack and Susan wear
in the summer.





Autumn

This is the way
Jack and Susan's home looks
in the autumn.



This is the way
Uncle Henry's farm looks
in the autumn.



This is the way some plants look
in the autumn.



This is what some animals do
in the autumn.



This is what Father and Mother do
in the autumn.



Jack and Susan play
in the autumn.



This is the way it looks
when Jack and Susan get up
in the autumn.



This is the way it looks
when Jack and Susan go to bed
in the autumn.



This is what Jack and Susan wear
in the autumn.





Winter

This is the way
Jack and Susan's home looks
in the winter.



This is the way
Uncle Henry's farm looks
in the winter.



This is the way some plants look
in the winter.



This is what some animals do
in the winter.



This is what Father and Mother do
in the winter.



Jack and Susan play
in the winter.



This is the way it looks
when Jack and Susan get up
in the winter.



This is the way it looks
when Jack and Susan go to bed
in the winter.



This is what Jack and Susan wear
in the winter.





Spring

This is the way
Jack and Susan's home looks
in the spring.



This is the way
Uncle Henry's farm looks
in the spring.



This is the way some plants look
in the spring.



This is what some animals do
in the spring.



This is what Father and Mother do
in the spring.



Jack and Susan play
in the spring.



This is the way it looks
when Jack and Susan get up
in the spring.



This is the way it looks
when Jack and Susan go to bed
in the spring.



This is what Jack and Susan wear
in the spring.

Animals





Animals Are Alive

"I have a surprise," said Jack.

"It is in this box."

"What is it? What is it?"
said the children.

"Guess," said Jack.



"It needs air," said Mary.

"Is it something alive?"

"Yes," said Jack.

"It is something alive."



“Is it an animal?” said Miss Hill.

“Yes,” said Jack.

“It is an animal.

Now guess what animal it is.”

Tom wanted to have some fun.

He said, “I know it is not
an elephant.”

The children laughed.

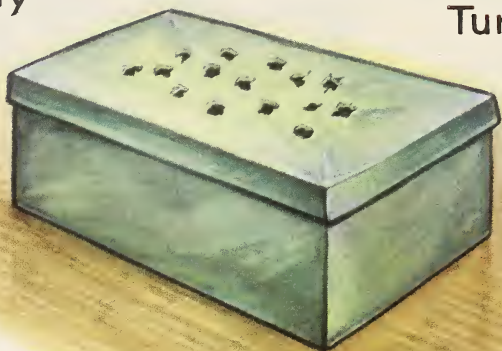
Miss Hill laughed, too.



Fly



Turtle



"Is it a turtle?" said Susan.

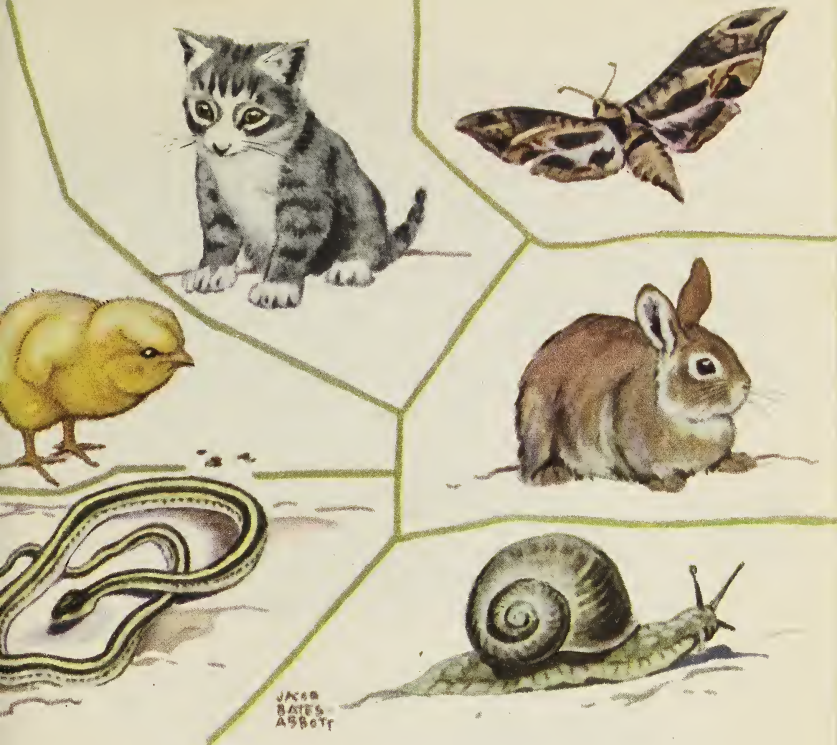
"No," said Jack.

"It is not a turtle."

Mary said,

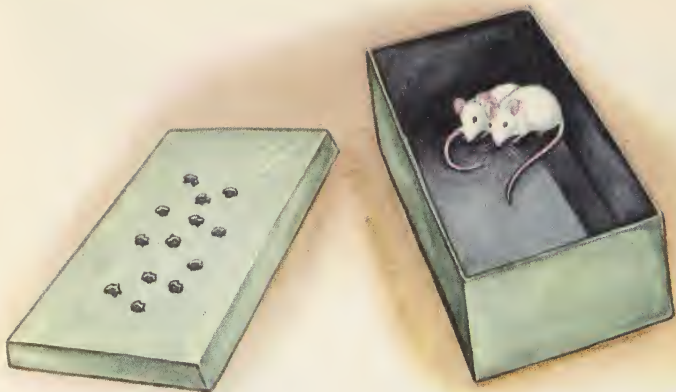
"I know it is not a fly.

A fly can get out of the holes."



The children guessed and guessed.
Here are some of the animals
they guessed.

But they did not guess
the animal in the box.



“We have all had a turn,”
said the children.

“No one has guessed.”

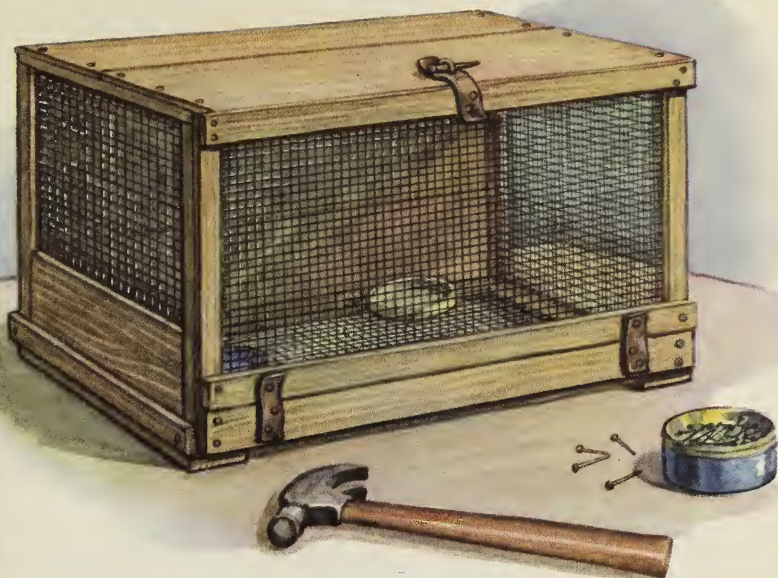
“Then I will open the box,”
said Jack.

“Two animals!”
said the children.

“Two white mice!”

“Yes,” said Jack.

“A father and a mother.”



“We will have to make a house for the mice,” said Mary.

“They need water every day,” said Jack.

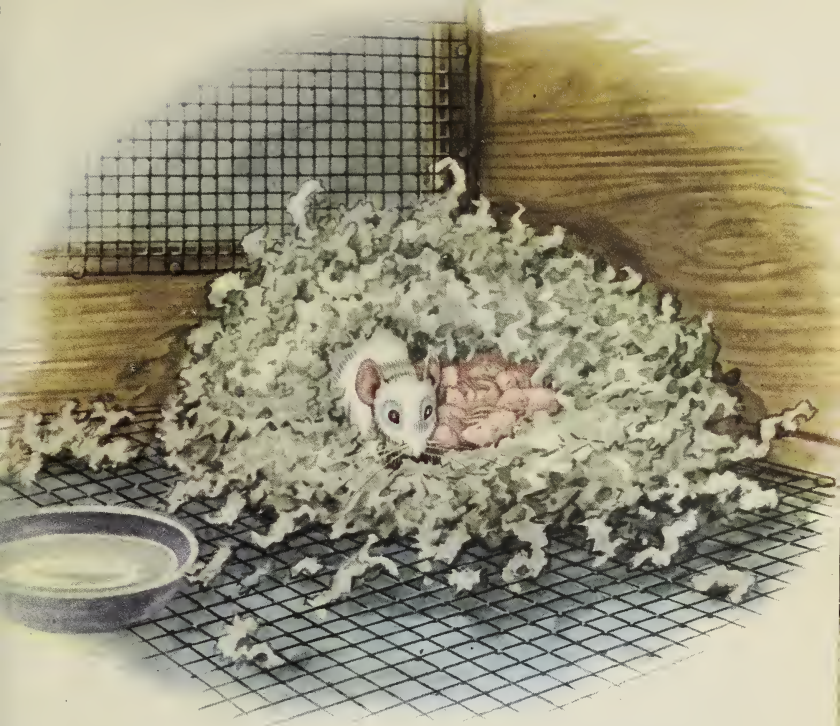
“They need something to eat every day.

They need air too.”



The children made a little house
for the mice.

This is what they did every day.



One day the children looked
in the little house.

What did they see ?

Babies, babies, babies !

Baby mice !

What a surprise !



Mothers and Babies

Here is a mother and her baby.



Here is another mother
and her baby.
What is the baby called ?



Here is a mother elephant.
She has a baby.
The baby looks like the mother.
The mother elephant is big.
The baby elephant is little.



This mother has a baby, too.
What a little baby!
Some day the baby will be big.



This mother has two babies.
What are her babies called?



Here is another mother
and her babies.

How many babies does she have ?



This mother has many babies.
The babies like to play.
What are the babies called ?



This mother has many babies, too.
She keeps her babies warm.



Mother bird has many babies.
The babies are too little to fly.
They want something to eat.
Mother bird feeds her babies.
Father bird feeds the babies, too.



This mother has many babies.
They are little.
They look like their mother.



This mother has babies, too.
The babies do not look
like their mother.

What are they called ?
Some day they will be
like their mother.

Then they will fly away.



A frog has many, many babies.
What are the babies called ?
The babies do not look
like their mother.
But some day they will be frogs.

Plants





Plants Are Alive

“I have a surprise for you,”
said Miss Hill.

“Is it alive?” said Jack.

“Yes,” said Miss Hill.

“Then it is an animal,” said Susan.

“No, it is not an animal,”
said Miss Hill.

“What can it be?” said Susan.



"Here it is," said Miss Hill.

"It is a plant!" said Susan.

"Are plants alive?"

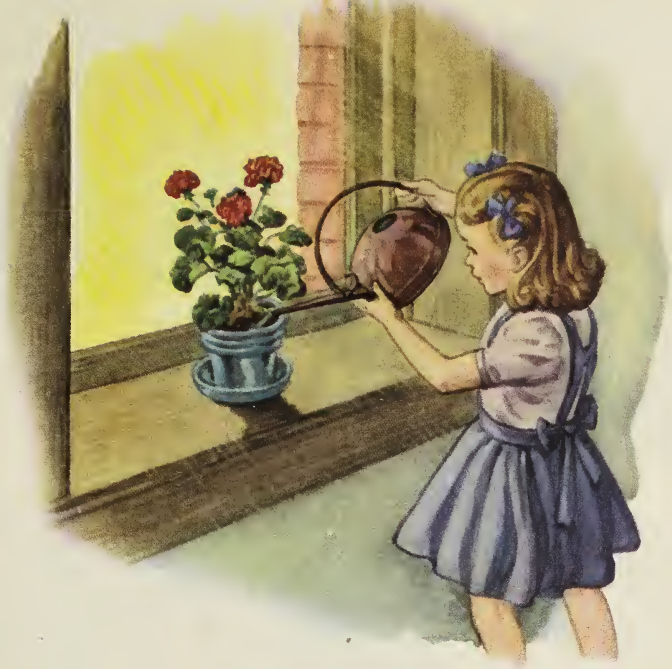
They do not move."

"Plants are alive," said Miss Hill.

"They do not move, but they grow.

Animals grow, too.

Things that grow are alive."



“We will put the plant
near the window,” said Miss Hill.

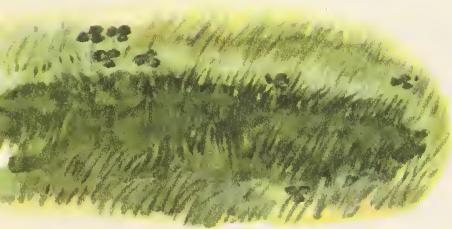
“It needs air.

It needs sun.

It needs water.

It needs soil too.

Now it will grow.”



Here are some plants.



Here are more plants.
Plants grow.



Seeds

Father and Jack went for a walk.
They saw a big oak tree.

“Look under the tree,”
said Father.



Jack found some acorns
under the tree.

He found a little oak tree too.

“Look at this little oak tree,”
said Jack.

“How did it get here?”



“It grew from an acorn,”
said Father.

“An acorn is the seed
of an oak tree.

All these oak trees grew
from acorns.

That is the way
we get more trees.

They grow from seeds.”

“That is the way we get plants
in our garden,” said Jack.

“They grow from seeds.”

“Yes,” said Father.

“Trees are plants.”



More Seeds

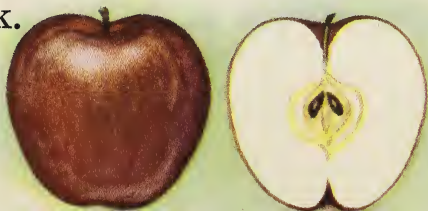
Jack and Father looked
for more seeds.

They found an apple tree.

Father showed Jack
the seeds of an apple.

"Now we will eat the apple,"
said Father.

"It is fun to look for seeds,"
said Jack.





For days and days Jack and Father
looked for seeds.

They found seeds in the woods.



They found seeds in the garden.



They found some seeds here too.



They found some seeds
when they had supper.



Jack and Father found
other kinds of seeds.

Here are some of them.



How Seeds Grow

“ Can I see how a plant grows out of a seed ? ” said Jack.

“ Yes,” said Father.

“ We will plant some seeds.

We will plant them
so that we can see how they grow.”



This is what Father did.
He put some soil in a glass dish.
He put some seeds in the soil
near the glass.
He put water on the soil.
He put the dish near the window.



Every day Jack and Father
put more water on the soil.

Every day they looked
at the seeds.

Do you know what they saw ?

Plant some seeds in a glass dish
and see what Jack and Father saw.



Things That Are Not Alive



Father and Susan went for a walk.

“I want to sit on this rock,”
said Father.

“This is where I sat
when I was a boy.”

“Did you sit on this very rock?”
said Susan.

“Yes,” said Father.

“It was this very rock.”

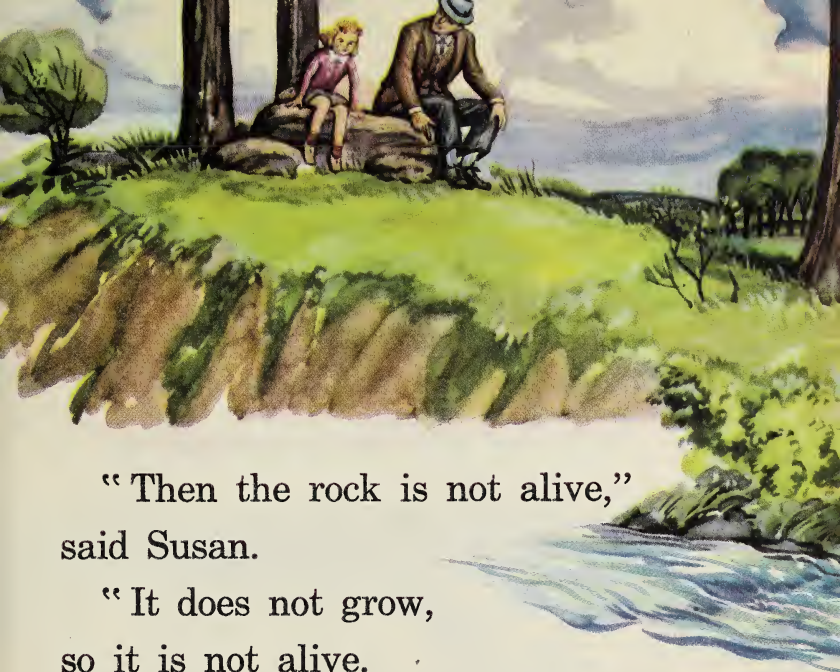


“ Were you little then ? ”
said Susan.

“ Yes, I was a little boy,”
said Father.

“ Did the rock look like this
when you were a little boy ? ”
said Susan.

“ Yes,” said Father. “ It did.
I grew, and the trees grew,
but the rock did not grow.”



"Then the rock is not alive,"
said Susan.

"It does not grow,
so it is not alive.

What other things are not alive?"

"See the water," said Father.

"It is not alive."

"It moves," said Susan.

"Yes, it moves, but it is not alive,"
said Father.



"I want to take a big rock to school," said Susan.

"Then we will have something that is not alive.


We have animals and plants, but they are alive."

"You have air in your school," said Father.

"It is not alive."

"Then we will have two things that are not alive," said Susan.

What other things in Susan's school are not alive?



The clouds move,
but they are not alive.



The wind is not alive.
But it makes other things move.

Weather





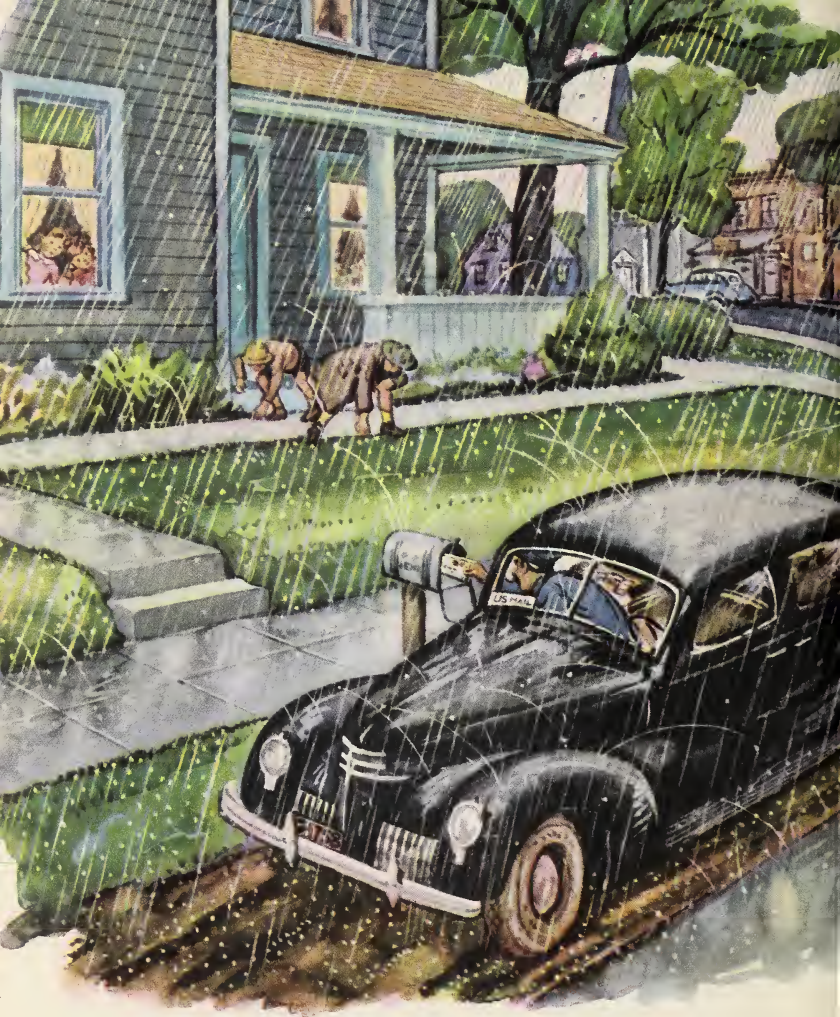
The postman brings the mail
every day.



This weather does not stop him.



The postman likes
this kind of weather.



This weather does not stop him.



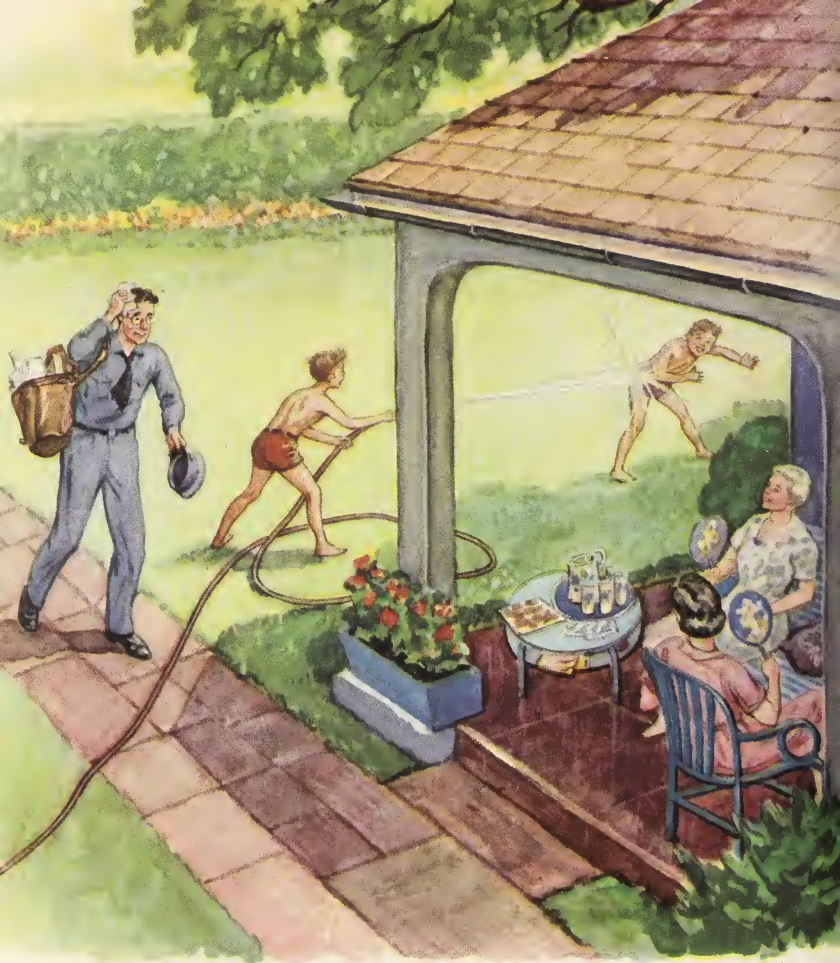
Here comes the postman
with the mail.



Here he comes again.



He brings the mail
in every kind of weather.



He does not like this weather,
but he comes.



This weather does not stop
the postman.

He brings the mail
in every kind of weather.

The Magnet





Jack has a magnet.
He showed the children
one way to use it.
What did he pick up
with his magnet?

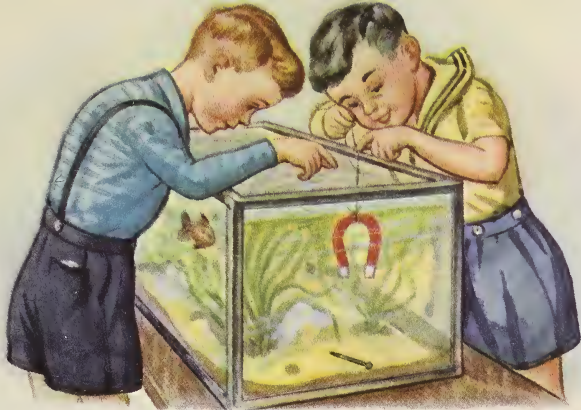


Does the magnet pick up
these things ?

Try it.

Try to pick up other things too.

What things does the magnet
pick up ?



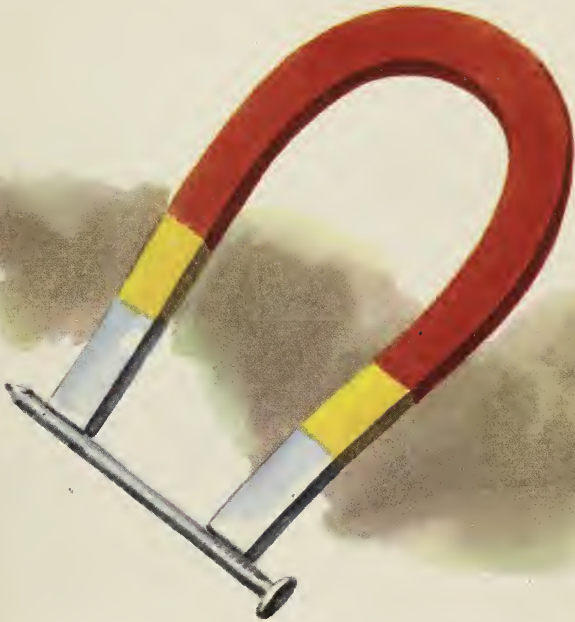
Try this.



Try this.



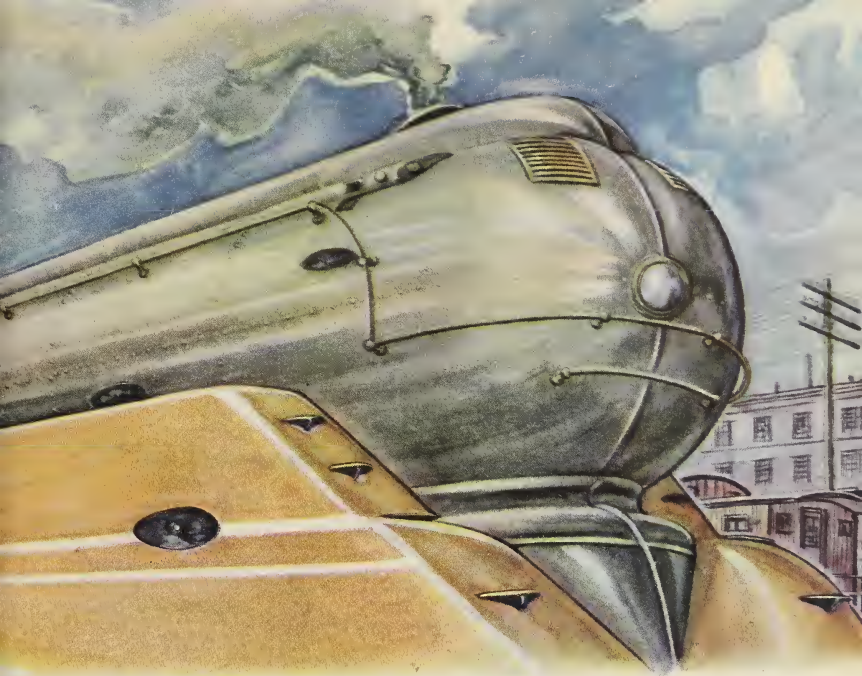
Is the magnet sticky ?
No, it is not sticky.



What does it ?
The magnet does it.

What Makes Things Go





Tom's father is an engineer.

He makes the train go.

Father likes trains.

Tom likes trains, too.

"Good-by, Tom," said Father.

"Good-by," said Tom.



It is Tom's birthday.

How old is he ?

Father gave him a train.

Tom pushes the train.

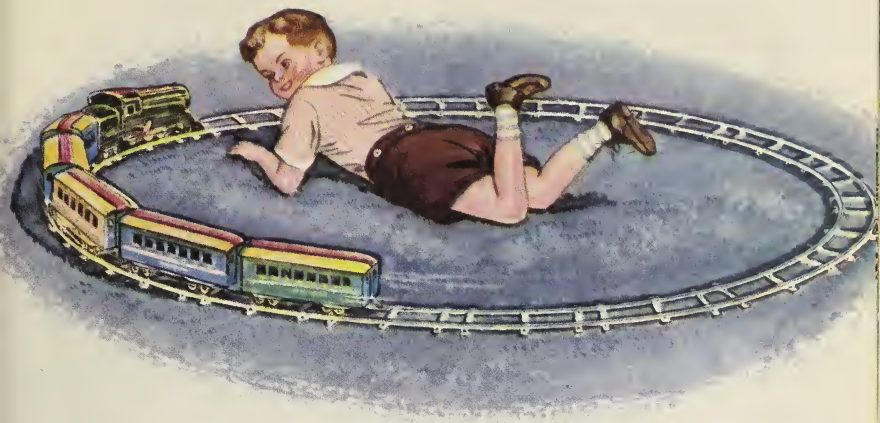
When Tom stops, the train stops.



It is Tom's birthday.
How old is he now ?
Father gave him a train.
Tom runs and pushes the train.
The train goes fast.
What helps it to go fast ?
When Tom stops, the train stops.



It is Tom's birthday.
How old is he now?
Father gave him a train.
Where does this train run?



Tom does not push this train.

He turns a key.

The key winds a spring.

See the train go !

It goes very fast.

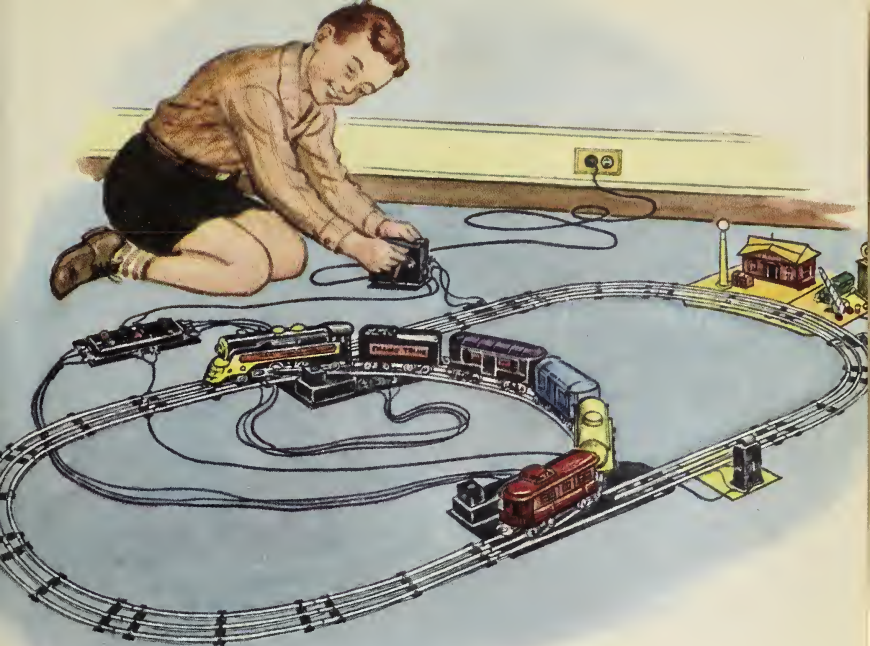
Then it goes slower and slower.

It stops !

Then Tom turns the key
and winds the spring again.



It is Tom's birthday.
How old is he now?
Father gave him another train.
"Oh," said Tom. "This is
what I wanted for my birthday."



What makes this train go ?

Does Tom push it ?

Does he turn a key ?

Does he wind a spring ?

How does Tom make it go ?

How does he make it stop ?



It is Tom's birthday.

How old is he now ?

Father said, " Happy birthday, Tom.

I do not have a train for you.

But I have another surprise."

" What is it ? " said Tom.

" Come and see," said Father.



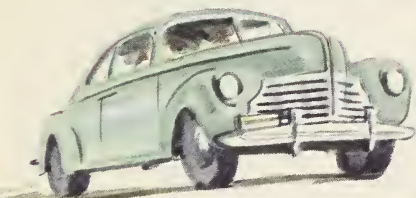
This is what Tom did
on his birthday.

He made the train go.

Tom was happy !

“I like trains,” he said.

“I want to be an engineer
when I grow up.”

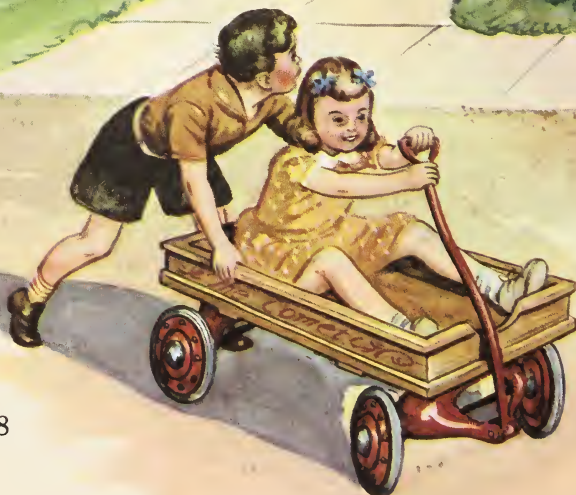
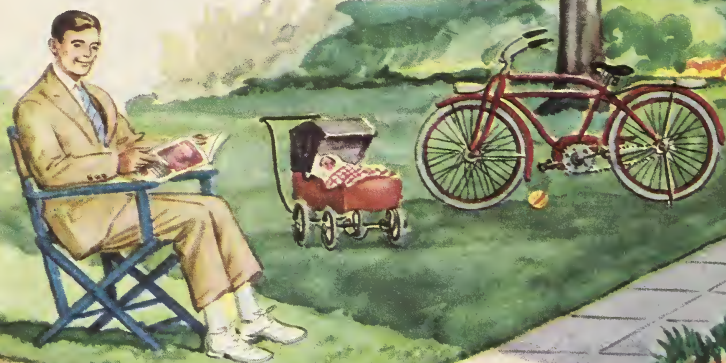


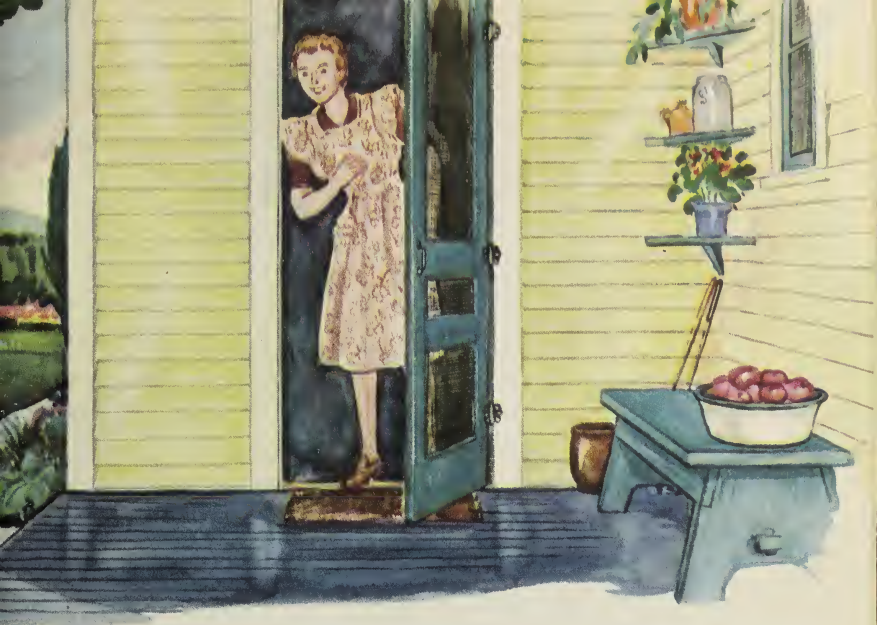
What makes these things go ?



What makes these things go ?

An Easy Way





"Supper will soon be ready,"
said Mother.

"Put away your toys
before you come in."

"We will," said Jack.

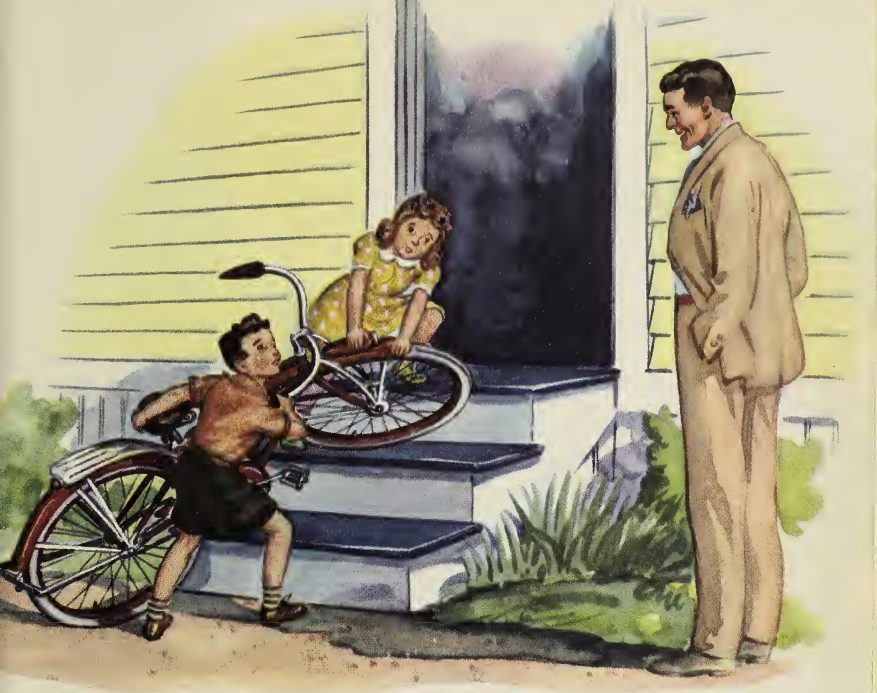
Jack and Susan went to work
to put away the toys.



"This is hard work," said Jack.

"Will you help?"

"Yes," said Susan. "I will help."



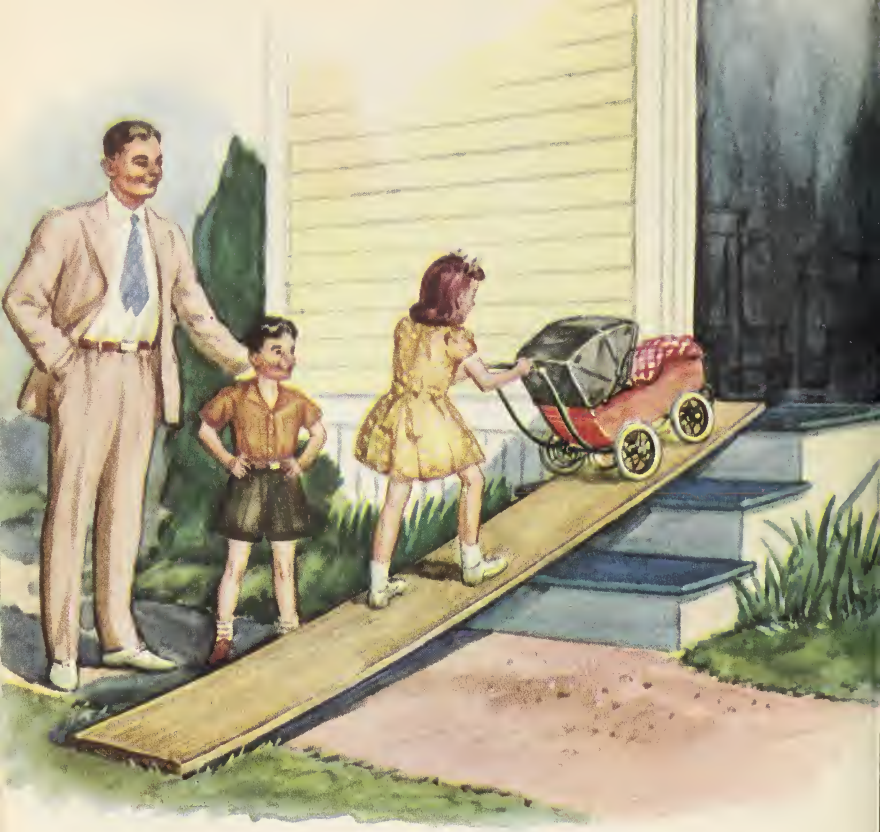
“That is hard work,”
said Uncle Henry.

“Why do you work so hard?”

“Is there an easy way?” said Jack.

“Yes,” said Uncle Henry.

“I know an easy way.”



This is what Uncle Henry did.
Now the work was easy.
Jack and Susan put away
all the toys.



“We are ready for supper,”
said Jack.

“So soon?” said Mother.

“Yes,” said Jack.

“Uncle Henry gave us some help.

He did not do the work.

He showed us how to do it.

He showed us an easy way.”

“It was a fast way too,”
said Susan.



Here are some easy ways
to do work.



These things help us to do work.
What are they ?

Water





No Rain

Susan had a new red umbrella.

Jack had new red boots.

"I want rain," said Susan.

"I want rain," said Jack.

But it did not rain.



Day after day it did not rain.
Day after day there were no clouds.
Things were very dry.
Mother had much work to do.
What did she do ?
Father had much work to do.
What did he do ?
Father and Mother wanted rain.



For days and days it did not rain.

"We need rain," said Father.

"There is not much water
in the lake.

We must not use much water."

"Then I will not take a bath,"
said Jack.

"Oh, yes, you will," said Father.

"But do not use too much water."



Rain

One day Jack and Susan
were at school.

They were ready to go home.

They saw a big cloud.

“Oh,” said Susan.

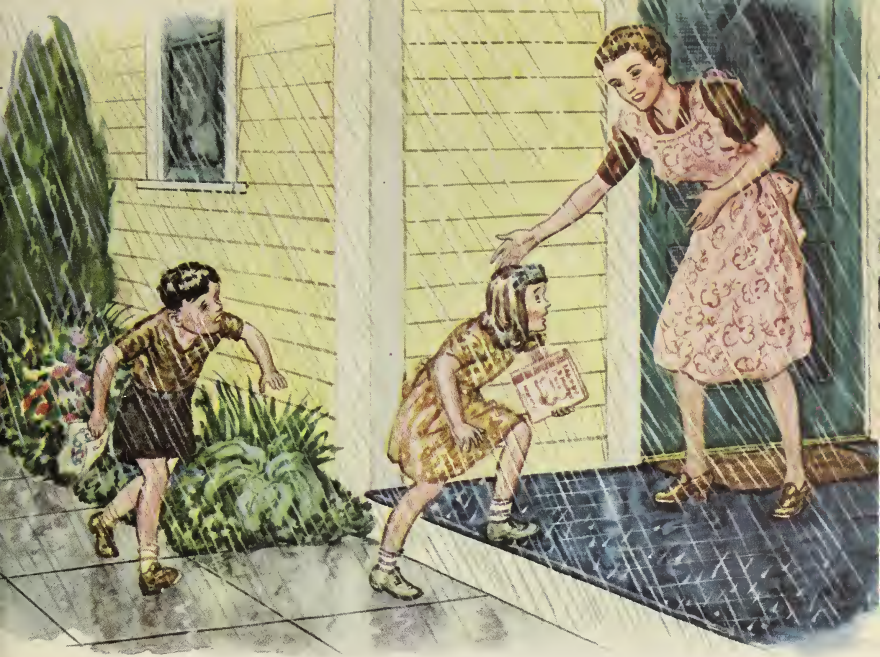
“It looks like rain.

I do not have my red umbrella.”

“I do not have my rubber boots,”
said Jack.

“Run fast,” said Miss Hill.

“Try to get home before it rains.”



Jack and Susan did not get home
before it rained.

Oh, how it did rain !

The children were very wet.

Mother said, " Your clothes are wet.
You must put on dry clothes.
Then you will not take cold."



The next day it rained again.
Jack put on his red rubber boots.
Susan put up her red umbrella.
The children did not get wet.
The umbrella was wet.
The boots were wet.
The water ran on the floor.

“Wipe up the water,” said Miss Hill.
“You may fall on a wet floor.”



Day after day it rained.
The ground was wet and soft.
The children walked
on the soft ground.
There were many little puddles.
There were big puddles too.

Jack said to Susan,
“This is good weather for ducks.”

Do you know why?



It rained and rained.

Mother said, "I can not do my work.
I can not get the clothes dry."

Father laughed, "I like the rain.
I do not have to water the plants.
There is more and more water
in the lake."

"That is good," said Mother.

"We need more water in the lake.
Now we can use more water."



“Look at the worms !

Look at the worms !” said Jack.

“I guess it rained worms,”
said Susan.

“No,” said Jack.

“The worms did not come down
with the rain.

They have come out of the ground.

The ground is too wet for them.

They will go into the ground again
when it is dry.”



Rain, rain, rain every day !
The children wanted the rain to stop.
They said,

“ Rain, rain, go away.
Come again another day.
Little children want to play.”

But the rain did not stop.



After the Rain

The next day it did not rain.

There were no clouds.

The sun was out.

Mother put the clothes out to dry.

The grass was clean.

The air was clean.

The trees were clean.

The rain made them clean.



The children went out to play.
They found a big puddle.
What fun they had !
They threw things into the puddle.
Splash, splash, splash !
Some things went down
into the water.
Some things did not go down
into the water.

“ They float,” said the children.



“The things that float
are like boats,” said Jack.

“When I make the water move,
my boat moves,” said Susan.

One boat went on and on.

Jack went in the water to get it.

He had on his red rubber boots.



“Wipe your rubbers
before you come in,” said Miss Hill.

“We want our school to be clean.”



The next day the children
did not play in the water.

Do you know why ?

There was no water.

“ Where did it go ? ” said Susan.

“ It went into the ground,”
said Jack.

“ Some of the water went
into the air,” said Miss Hill.

“ Into the air ? ” said the children.



“ Yes,” said Miss Hill.

“ Water goes into the air.

It evaporates.

When there is too much water
in the air, it falls to the ground.

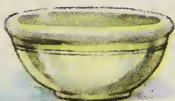
Then we have rain.”

Here are things to do with water.

1. Put some water in a dish.

Does the water evaporate ?

2. Put a glass of water
in dishes like these :



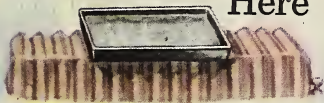
Look at the dishes every day.

Does the water evaporate ?

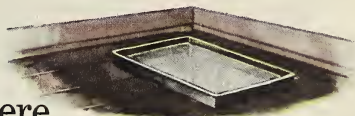
What do you find out ?

3. Put water in two dishes.

Here



Here



Look at the dishes every day.

Does the water evaporate ?

What do you find out ?

Homes





A Woodchuck Home

Jack and Susan and Father
went for a walk in the woods.

Susan saw a hole in the ground.

“What is that?” she said.

Father looked at the hole.

“That is a woodchuck hole,”
he said.



“The woodchuck’s home is
in the ground,” Father said.

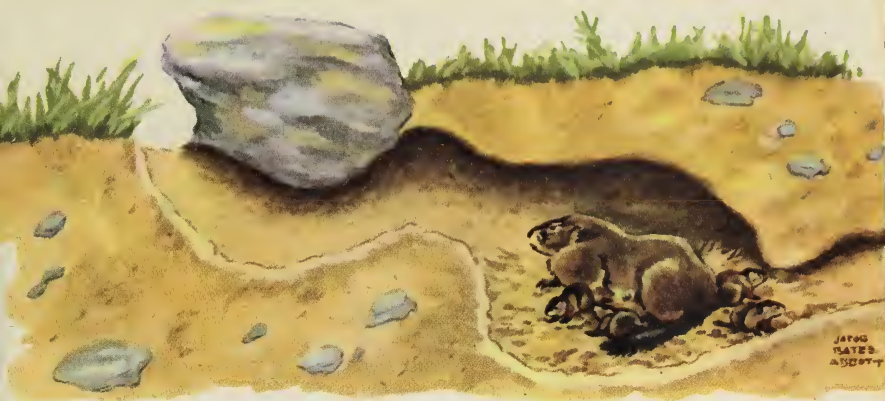
“This is the door of his home.
He has other doors too.”

“Why does the woodchuck’s home
have so many doors?” said Susan.

“I know,” said Jack.

“It makes his home safe.

He can get in and out very fast
when he is in danger.”



“The woodchuck’s home is safe and warm,” said Father.

“Here mother woodchuck has her babies.

She feeds them.

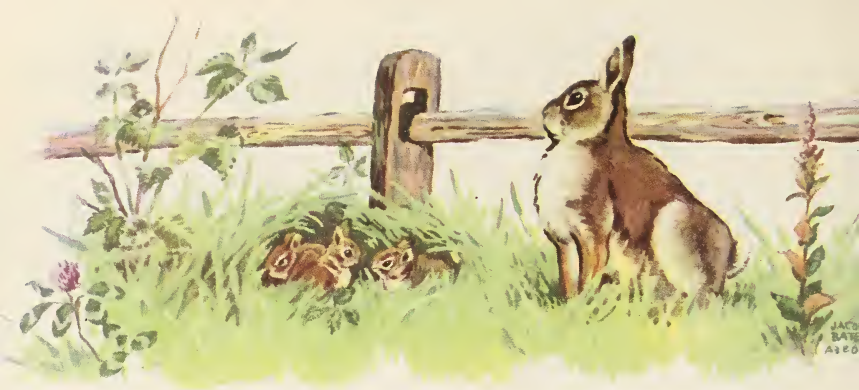
She keeps them warm.

She takes good care of them.

Soon the babies can come up and eat plants.

When danger is near, they all run into the ground again.

Woodchucks have safe homes.”



A Rabbit Home

“I want to find a rabbit hole,”
said Susan.

“Some rabbits do not have
their homes in holes,” said Father.

“Where does mother rabbit
keep her babies?” said Susan.

“Mother rabbit makes a soft nest
on the ground,” said Father.

“She makes it in the long grass.”



"A nest in the grass
is not a safe home," said Susan.

"No," said Father.

"It is not very safe.

But when the mother goes away
she puts leaves and grass on the nest.

This makes it hard to see
the babies."



“Baby rabbits grow up very fast,”
said Father.

“Soon the mother does not feed them.
They can leave the nest
to look for something to eat.

When in danger,
baby rabbits do not run to the nest.”

“What do they do?” said Susan.

“They sit very, very still,”
said Father.

“Then it is hard to see them.
When danger comes very near,
the rabbits run away.

They can run very fast.”



A Squirrel Home

"I see a nest in the tree,"
said Jack.

"It is a big bird's nest."

"That is not the nest of a bird,"
said Father.

"It is a squirrel's nest.

It looks like a ball of leaves.

It is a safe warm home."



“In the ball of leaves
is a warm soft nest,” said Father.

“Here mother squirrel
has her babies.

She feeds them.

She keeps them warm.

She takes good care of them.”



Baby squirrels grow up very fast.
Soon they do not need
their mother's care.

One after another
the little squirrels leave the nest.

One after another
they make new homes.



Other Homes

“There are many animal homes in the woods,” said Father.

“We can not look for them now.

We must go to our home.”



“Some day we will come
to the woods again,” said Father.

“We will look
for other animal homes.

We will look for animal homes
near the lake too.”



“Here we are at home,”
said Father.

“This is a good home, too.
It keeps out the rain.
It keeps out the cold wind
in winter.

It keeps out the warm sun
in summer.”



“We are safe in this home,”
said Susan.

“You take good care of us.
Mother takes good care of us.”

“I know that Mother has supper
ready for us now,” said Jack.

“We saw many homes,”
said Father.

“But this home is a good one
for us.”

Vocabulary List

Science All About Us is the first volume in a series entitled OUR WORLD OF SCIENCE. The total vocabulary of *Science All About Us* is 259 words. Of these words 166, taken from a basic reading list for the first grade, are assumed as known.

Science All About Us also uses 93 new words necessary to the development of science concepts. These new words are gradually introduced. No more than two of them appear on any page; and all but 10 of the new words are used four times or more. All variants except those formed by adding *s*, *es*, and *'s* to a known word are counted as new words.

The following list includes the new words by pages:

4 seasons	25 winter	47 an	65 . . .
5 summer	26 . . .	elephant	66 . . .
6 Henry's	27 . . .	48 fly	67 . . .
7 . . .	28 . . .	holes	68 move
8 animals	29 . . .	49 guessed	things
9 . . .	30 . . .	50 turn	69 near
10 . . .	31 . . .	mice	soil
11 . . .	32 . . .	51 every	70 . . .
12 bed	33 . . .	52 made	71 more
13 wear	34 . . .	53 babies	72 seeds
14 . . .	35 . . .	54 . . .	oak
15 autumn	36 . . .	55 another	73 acorns
16 . . .	37 . . .	56 . . .	74 grew
17 . . .	38 . . .	57 . . .	these
18 . . .	39 . . .	58 . . .	75 showed
19 . . .	40 . . .	59 many	76 woods
20 . . .	41 . . .	does	77 . . .
21 . . .	42 . . .	60 . . .	78 . . .
22 . . .	43 . . .	61 keeps	79 supper
23 . . .	44 . . .	62 bird	80 kinds
24 . . .	45 alive	feeds	them
	46 needs	63 their	81 . . .
	air	64	82 glass
			dish

83 . . .	102 try	122 . . .	138 threw
84 . . .	103 . . .	123 . . .	float
85 rock	104 sticky	124 . . .	139 . . .
very	105 . . .	125 . . .	140 . . .
86 . . .	106 . . .	126 . . .	141 . . .
87 . . .	107 engineer	127 umbrella	142 evaporates
88 . . .	108 gave	boots	143 . . .
89 clouds	pushes	128 dry	144 . . .
wind	109 goes	much	145 woodchuck
90 weather	110 . . .	129 lake	146 safe
91 mail	111 key	bath	danger
92 . . .	slower	130 rubbers	147 care
93 . . .	112 oh	131 rained	148 nest
94 . . .	113 . . .	clothes	149 leaves
95 . . .	114 . . .	132 wipe	150 still
96 . . .	115 . . .	fall	151 . . .
97 . . .	116 . . .	133 soft	152 . . .
98 . . .	117 . . .	puddles	153 . . .
99 . . .	118 easy	134 . . .	154 . . .
100 magnet	119 before	135 worms	155 . . .
101 use	120 hard	136 . . .	156 . . .
pick	121 why	137 grass	157 . . .
		clean	158 . . .

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